

The Commonwealth of Massachusetts  
Executive Office of Health and Human Services  
Department of Public Health  
William A. Hinton State Laboratory Institute  
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK  
GOVERNOR

TIMOTHY P. MURRAY  
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD  
SECRETARY

JOHN AUERBACH  
COMMISSIONER

12/29/2011

Mary Szulborski  
Assistant District Attorney, Suffolk County

Dear ADA Szulborski,

Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED]  
Included are copies of the following:

1. Curriculum Vitae for Annie Dookhan and Peter Piro.
2. Drug Analysis Laboratory Receipt.
3. Control Cards with analytical results for samples # [REDACTED]
4. Analysis sheets with custodial chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for samples # [REDACTED]

Annie Dookhan was the custodial chemist and performed the preliminary testing and net weight for this sample. Peter Piro analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

A handwritten signature in black ink, appearing to read "Annie Dookhan".

Annie Dookhan  
Chemist  
Drug Analysis Lab  
Jamaica Plain, MA. 02130  
(617) 983-6622

## Curriculum Vitae

**Annie Khan (Dookhan)**

### **Education:**

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.

University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

### **Experience:**

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

\*Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.

\*Writing, revising and reviewing Standard Operating Procedures (SOPs) and Protocols.

\*Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.

\*Oversee the Quality Control/Quality Assurance program for the Drug Lab.

\*Maintenance and repairs of all analytical instruments.

\*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.

\*Qualified as an expert witness in Massachusetts Courts and U.S. District Court.

\*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.

\*Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.

\*Notary Public.

2001 – 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

\*Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department for the Food and Drug Administration.

\*Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.

\*Writing, revising and reviewing Standard Operating Procedures (SOPs).

\*Trained and supervised new chemists and interns for the department.

\*Routine QC testing of products for the FDA.

\*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.

\*Calibration, preventive maintenance, QC and QA of analytical instrumentation.

\*Complete testing of chemicals for Vendor Validation Project for the FDA.

\*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

### **Additional Training:**

Dept. of Justice – Forensics Professionals. (numerous trainings)

GLP/GMP training with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS trainings with Agilent Technologies and Restek.

HPLC and LC/MS/MS trainings with Waters Cooperation.

FTIR training with Spectros.

TOC training with MBL and Sievers.

### **Association:**

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

## Curriculum Vitae

Peter Piro

### EDUCATION

Boston University

B.A. in Chemistry and Minor in Biology, 1989

### HONORS

Magna Cum Laude, 3.6 GPA

Graduated with Distinction in Chemistry

Valedictorian of the Chemistry Department

### EXPERIENCE

#### Department of Public Health/State Laboratory Institute

Chemist III, II, I/ Assistant Analyst

December 1991-Present

Supervise the operation and maintenance of the Gas Chromatography/Mass Spectrometry Laboratory. Analyze controlled substances for State and Federal law enforcement agencies. Qualified as an expert witness in Massachusetts courts and U.S. District Court.

#### Massachusetts Health Research Institute

Laboratory Technician

September 1990-December 1991

Researched the seasonal and special occurrences of DSP and PSP in shellfish samples harvested from coastal waters and Georges Bank.

### TRAINING AND ORGANIZATIONS

- \* Completed a six-week training course by senior staff within the Department of Public Health Drug Analysis laboratory.
- \* Appointed Assistant Analyst by the Assistant Commissioner of Public Health in February 1991.
- \* Elected as a Regular Member to the Northeastern Association of Forensic Chemists on October 27<sup>th</sup> 1995.
- \* Completed training in Mass Spectrometry given by the Food and Drug Administration/Forensic Chemistry Center on November 2002.
- \* Completed training in Mass Spectrometry Troubleshooting and Maintenance, October 25<sup>th</sup> 2002, at Agilent Technologies.
- \* Notary Public since 1993.



DRUG RECEIPT

CC #

BOOK #

PAGE #

DESTRUCTION #

District/Unit

Name & Rank of Arresting Officer

ID#

DEFENDANT'S NAME

ADDRESS

CITY

STATE

DESCRIPTION OF ITEMS SUBMITTED

GROSS  
QUANTITY

GROSS  
WEIGHT

LAB USE ONLY

ANALYSIS  
NUMBER

HEROIN

1 p/B

3.65 gm

To be completed by ECU personnel only

Name and Rank of Submitting Officer

ID#

Received by

Date

ECU Control #

No. [REDACTED]

Date Analyzed: 11-8-10

City: Boston D.C.U. Police Dept.

Officer: P.O. SYBIL WHITE

Def: [REDACTED]

Amount:

Subst: SUB

No. Cont: 1 Cont: pb

Date Rec'd: 08/11/2010

No. Analyzed:

Gross Wt.: 3.65

Net Weight: 1-85

# Tests: LIAD  
• 2 P.P. 2

Prelim: Heroin

Findings: Heroin

# DRUG POWDER ANALYSIS FORM

SAMPLE # [REDACTED] AGENCY Boston ANALYST ASD

No. of samples tested:           

Evidence Wt.           

## PHYSICAL DESCRIPTION:

Beige chunky substance  
17-pb

Gross Wt ( ): 1.9709

Gross Wt ( ):           

Pkg. Wt:           

Net Wt: 1.8393

## PRELIMINARY TESTS

### Spot Tests

Cobalt  
Thiocyanate ( + )           

Marquis +           

Froehde's +           

Mecke's +           

### Microcrystalline Tests

Gold  
Chloride           

TLTA ( )           

### OTHER TESTS

## PRELIMINARY TEST RESULTS

RESULTS Heroin

DATE 11-01-10

## GC/MS CONFIRMATORY TEST

RESULTS Heroin

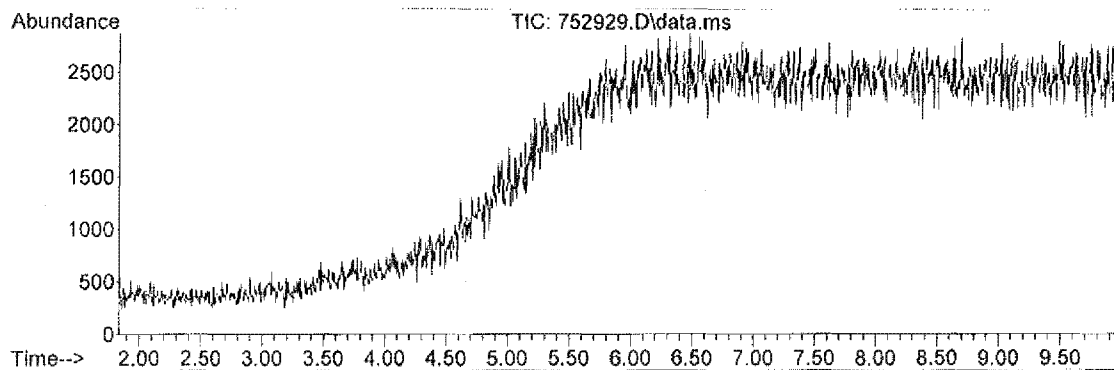
MS  
OPERATOR PJP

DATE 11-8-10

✓ P.P.D  
12-27-11

## Information from Data File:

File Name : C:\msdchem\1\System7\11\_03\_10\752929.D  
Operator : P. PIRO  
Date Acquired : 3 Nov 2010 16:27  
Sample Name : BLANK  
Submitted by :  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

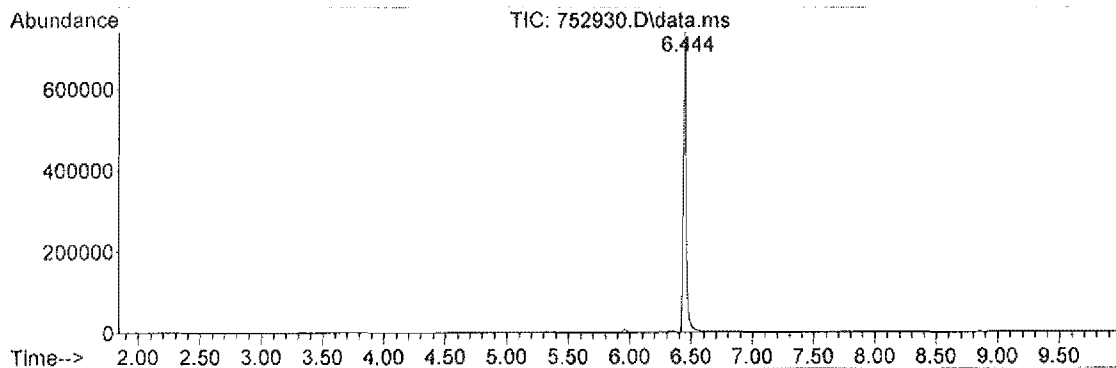


Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

## Information from Data File:

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Operator : P. PIRO  
Date Acquired : 3 Nov 2010 16:39  
Sample Name : HEROIN STANDARD  
Submitted by :  
Vial Number : 6  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
6.444	1153024	100.00	100.00



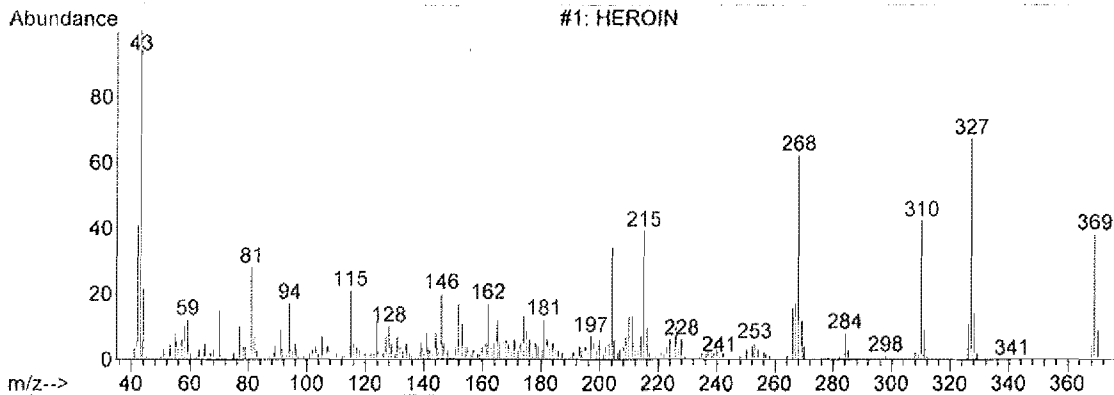
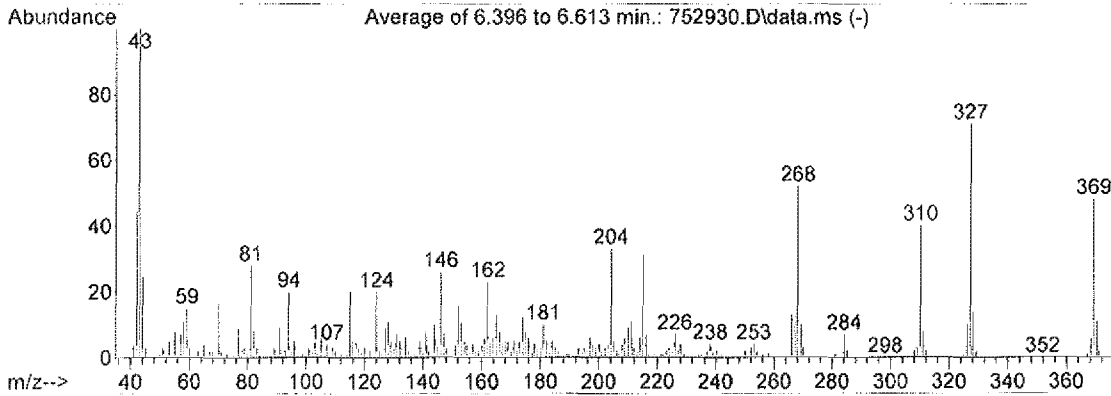
# Area Percent / Library Search Report

**Information from Data File:**

File Name : C:\msdchem\1\System7\11\_03\_10\752930.D  
 Operator : P. PIRO  
 Date Acquired : 3 Nov 2010 16:39  
 Sample Name : HEROIN STANDARD  
 Submitted by :  
 Vial Number : 6  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
 C:\Database\NIST05a.L Minimum Quality: 80  
 C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
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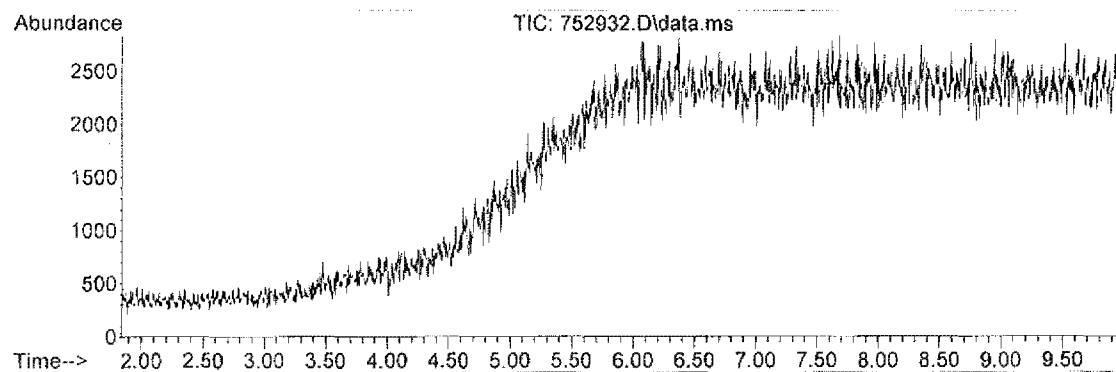
# Area Percent / Library Search Report

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Operator : P. PIRO  
Date Acquired : 3 Nov 2010 17:05  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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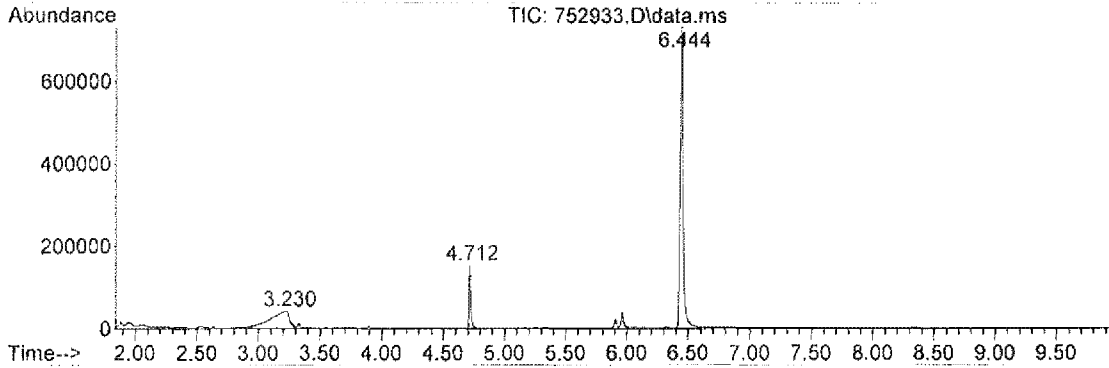
Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

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File Name : C:\msdchem\1\System7\11\_03\_10\752933.D  
 Operator : P. PIRO  
 Date Acquired : 3 Nov 2010 17:17  
 Sample Name : XXXXXXXXXX  
 Submitted by : ASD  
 Vial Number : 33  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE



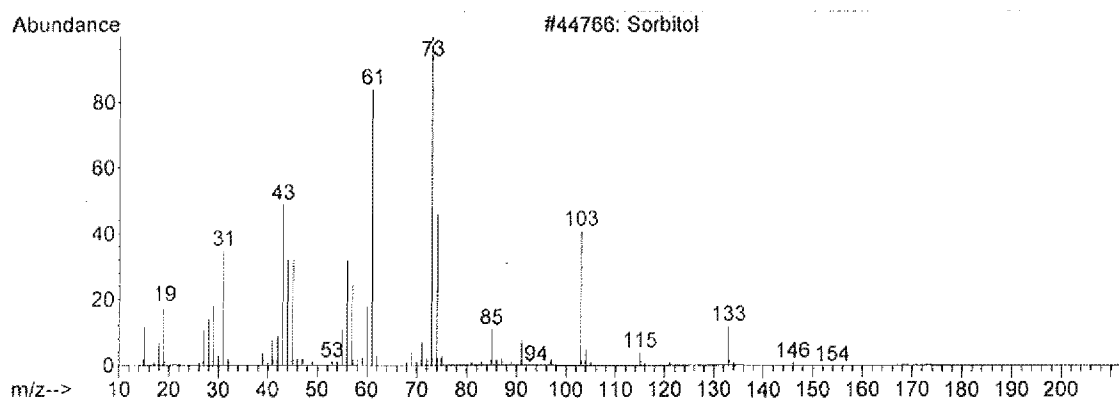
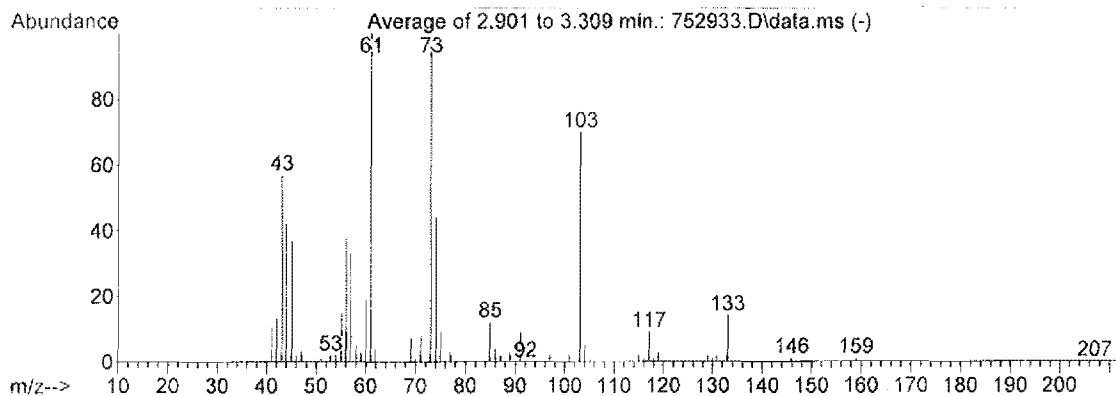
Ret. Time	Area	Area %	Ratio %
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4.712	164725	9.43	14.13
6.444	1165754	66.75	100.00

## Information from Data File:

File Name : C:\msdchem\1\System7\11\_03\_10\752933.D  
Operator : P. PIRO  
Date Acquired : 3 Nov 2010 17:17  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 33  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	3.23	C:\Database\NIST05a.L		
		Sorbitol	000050-70-4	91
		Glucitol	026566-34-7	86
		D-Mannitol	000069-65-8	78

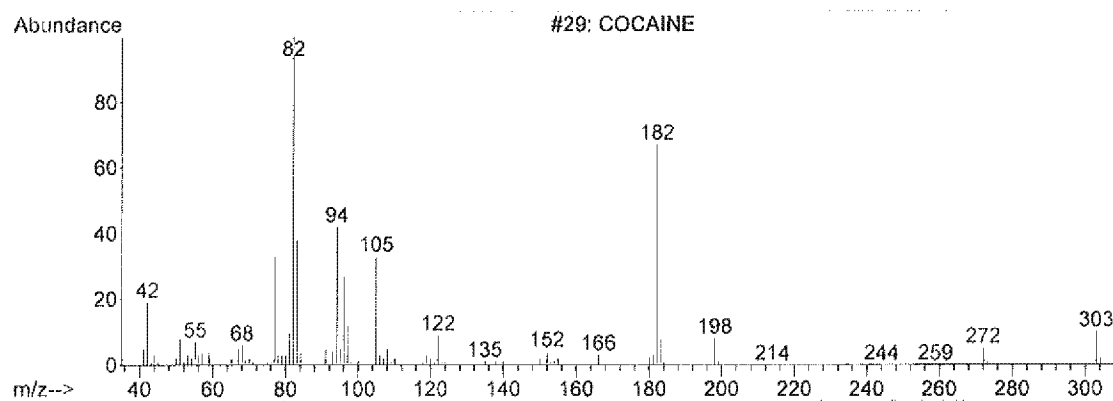
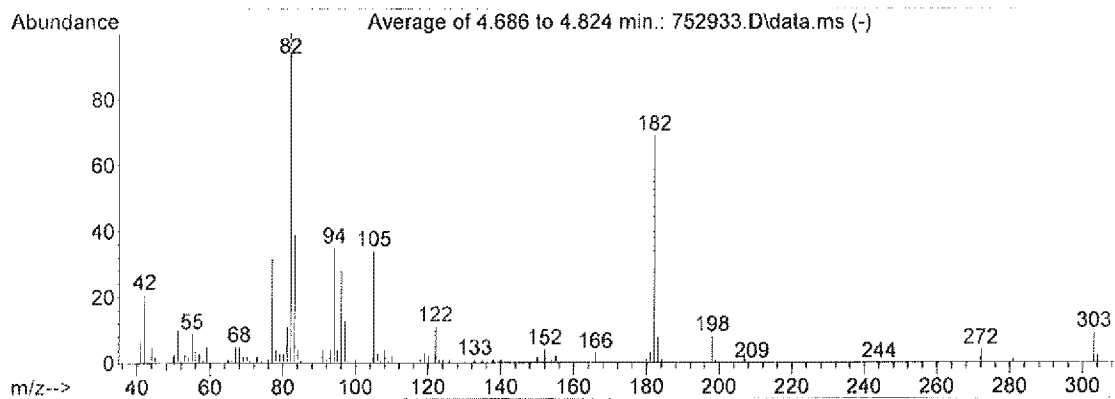


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Date Acquired : 3 Nov 2010 17:17  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 33  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	4.71	C:\Database\SLI.L COCAINE	000050-36-2	96

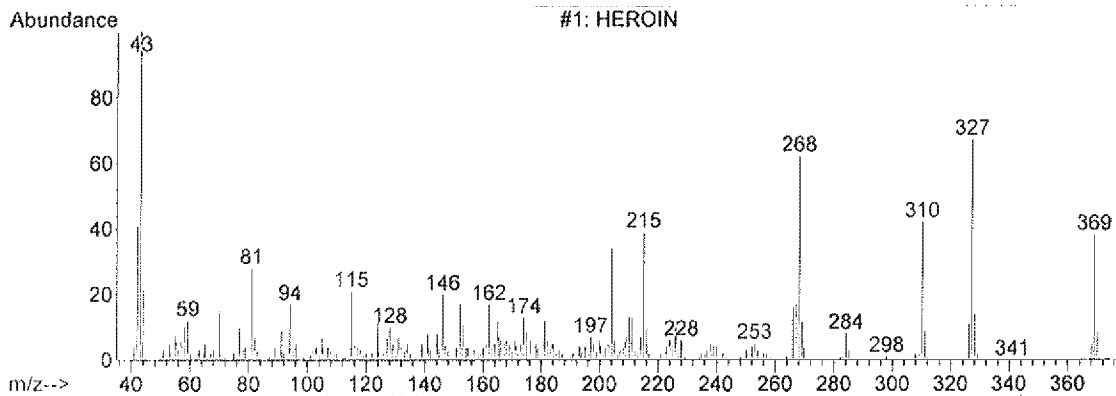
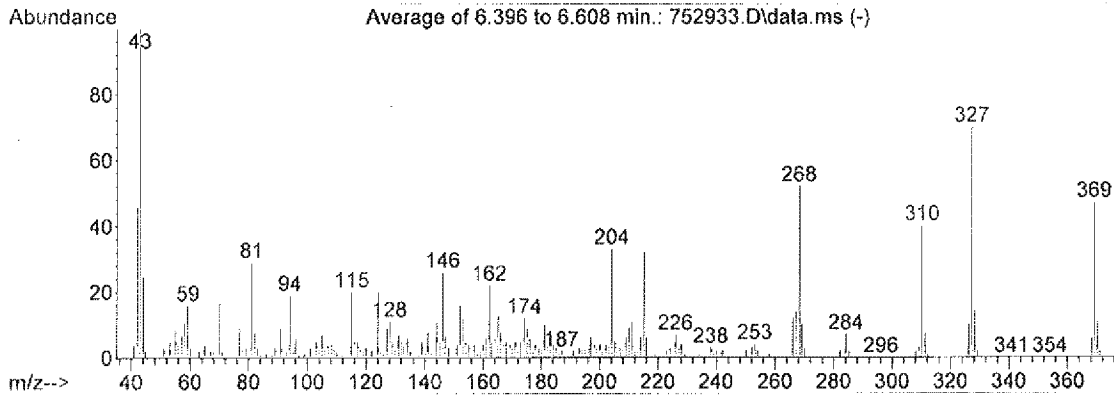


## Information from Data File:

File Name : C:\msdchem\1\System7\11\_03\_10\752933.D  
Operator : P. PIRO  
Date Acquired : 3 Nov 2010 17:17  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 33  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

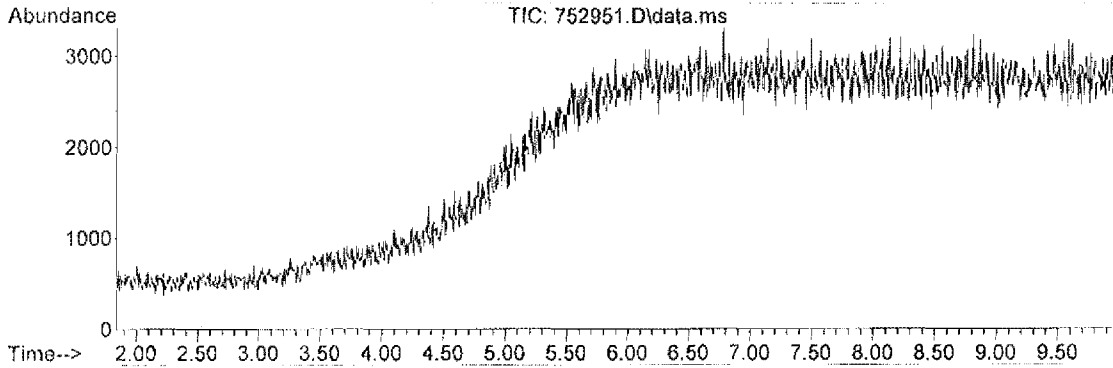
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C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
3	6.44	C:\Database\SLI.L HEROIN	000561-27-3	94



## Information from Data File:

File Name : C:\msdchem\1\System7\11\_03\_10\752951.D  
Operator : P. PIRO  
Date Acquired : 4 Nov 2010 7:03  
Sample Name : BLANK  
Submitted by :  
Vial Number : 2  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

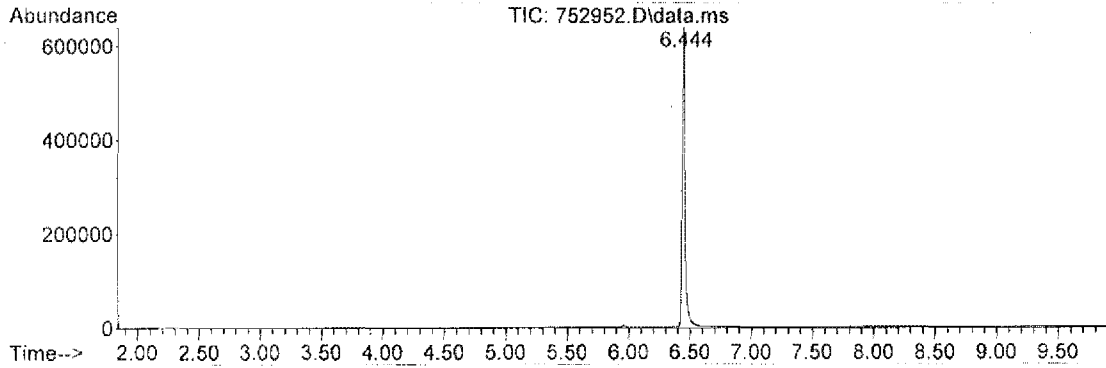


Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

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File Name : C:\msdchem\1\System7\11\_03\_10\752952.D  
 Operator : P. PIRO  
 Date Acquired : 4 Nov 2010 7:16  
 Sample Name : HEROIN STANDARD  
 Submitted by :  
 Vial Number : 6  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
6.444	998319	100.00	100.00



## Information from Data File:

File Name : C:\msdchem\1\System7\11\_03\_10\752952.D  
Operator : P. PIRO  
Date Acquired : 4 Nov 2010 7:16  
Sample Name : HEROIN STANDARD  
Submitted by :  
Vial Number : 6  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	6.44	C:\Database\SLI.L		
		HEROIN	000561-27-3	99
		JWH-073	208987-48-8	1

